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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/709,672	05/21/2004	James W. Adkisson	BUR920040002US1	3671
23550 HOFFMAN WA	7590 11/05/200 ARNICK LLC	EXAMINER		
75 STATE STR	REET	MERANT, GUERRIER		
14TH FLOOR ALBANY, NY 12207			ART UNIT	PAPER NUMBER
			2117	
			NOTIFICATION DATE	DELIVERY MODE
			11/05/2008	ELECTRONIC

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

PTOCommunications@hoffmanwarnick.com

		Application No.	Applicant(s)				
Office Action Summary		10/709,672	ADKISSON ET AL.				
		Examiner	Art Unit				
		Guerrier Merant	2117				
Period fo	The MAILING DATE of this communication appropriation of the second communication appropriate the second communication a	opears on the cover sheet with the o	correspondence address				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPERIOD FOR REPERIOR IS LONGER, FROM THE MAILING Insions of time may be available under the provisions of 37 CFR 1 SIX (6) MONTHS from the mailing date of this communication. It is period for reply is specified above, the maximum statutory period to reply within the set or extended period for reply will, by statutely preceived by the Office later than three months after the mailed patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION .136(a). In no event, however, may a reply be tired will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1) 又	Responsive to communication(s) filed on <u>06/</u>	19/08					
•		is action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
٥/ا	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Dispositi	on of Claims						
4)⊠	Claim(s) is/are pending in the applicat	ion.					
-	4a) Of the above claim(s) is/are withdrawn from consideration.						
	5) Claim(s) is/are allowed.						
	6) Claim(s) 1-20 is/are rejected.						
· ·	Claim(s) is/are objected to.						
-	Claim(s) are subject to restriction and	or election requirement.					
	on Papers						
	The specification is objected to by the Examir	ner					
•	The drawing(s) filed on is/are: a) a		Evaminer				
10/							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
	ınder 35 U.S.C. § 119		, , (etter) er (etter) (etter)				
	<u>-</u>) (d) (f)				
	12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a)	a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).							
* See the attached detailed Office action for a list of the certified copies not received.							
Attachmen		<u></u>					
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application							
Paper No(s)/Mail Date 6) Other:							

DETAILED ACTION

Final Action

Response to Amendment

1. Applicant's arguments/amendment, filled 06/19/08, have been fully considered but they are not persuasive.

Response to Arguments

2. As per the 35 U.S.C. 101 rejections:

In view of the paragraph [0022] stating "it is understood that the systems...can be implemented in hardware, software, or a combination of hardware and software." The Applicant argued that the specification does not limit the claimed system to software per se. The Examiner respectfully disagrees because the claimed elements (e.g. defect table, fault isolation) of the system are not clear enough to be considered as physical part of a device.

3. As per the rejections of claims 1-20: The Applicant argued that the prior arts of record fail to teach <u>inputting suspected faulty device features and comparing suspected faulty device features with previously studied features.</u> The Examiner respectfully disagrees. **Shimono (US 6,308,293 B1)** teaches a fault diagnosis comprising teach inputting suspected faulty device features and comparing suspected faulty device features with previously studied features (e.g. col. 1, lines 38-65). Therefore, the prior arts of record implicitly teach the limitations argued by the Applicant.

Claim Rejections - 35 USC § 101

4. 35 U.S.C. 101 reads as follows:

Whoever invents or discovers any new and useful process, machine, manufacture, or composition of matter, or any new and useful improvement thereof, may obtain a patent therefor, subject to the conditions and requirements of this title.

Claim 1 is rejected under 35 U.S.C. 101 because the claimed invention is directed to non-statutory subject matter.

As per claim 1, the specification (see [0022]) describes the system as software per se, which is a non-statutory subject matter.

Claim Rejections - 35 USC § 103

- 5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 6. Claims 1-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Morioka et al. (US 6,611,728) in view of Shimono (US 6,308,293 B1).

Claims 1, 9, 10, 15 and 18-20: **Morioka et al** substantially teaches a defect table (e.g. item 111, fig. 1) that associates previously studied features with known failures (e.g. col. 8, lines 36-62); and a fault isolation system that compares faulty device features with the previously studied features listed in the defect table in order to identify causes of the fail (e.g. col. 9, lines 9-30 & col. 11, lines 17-34). But **Morioka et al** fails to explicitly teach inputting suspected faulty device features and comparing suspected

Application/Control Number: 10/709,672 Page 4

Art Unit: 2117

faulty device features with previously studied features. However, **Shimono** teaches a

fault diagnosis comprising teach inputting suspected faulty device features and

comparing suspected faulty device features with previously studied features (e.g. col.

12, lines 38-65). Therefore, at the time the invention was made, it would have been

obvious to a person of ordinary skill in the art to implement the teaching presented in

the prior arts with the one taught by **Shimono** in order to locate and identify faults.

7. Claims 2-4, 6, 8, 11-13 and 17: Morioka et al and Shimono teach a diagnosis

system as in claims 1, 9, and 15 above, wherein the previously studied features are

selected from the group consisting of: net names, instance names, cell names, physical

attributes, logical attributes, presence of a feature, and absence of a feature (col.20,

lines 45-67 & col. 11, lines 14-34; Morioka et al.).

8. Claim 5: Morioka et al and Shimono teach a diagnosis system as in claim 1

above, wherein the simulation program utilizes device logic and operational logs to

identify faulty device features (e.g. col. 14, lines 20-31- Shimono).

9. Claims 7, 14, and 16: Morioka et al and Shimono teach a diagnosis system as

in claims 1, 9, and 15 above, further comprising a table update system for maintaining

and updating the defect table (col. 23, lines 15-26, Fig. 30; Morioka et al.).

Conclusion

10. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Exr. Merant Guerrier whose telephone number is (571) 270-1066. The examiner can normally be reached Monday through Thursday from 10: 30 a.m. to 3:30 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jacques Louis Jacques, can be reached on (571) 272-6962. Draft or Informal faxes, which will not be entered in the application, may be submitted directly to the examiner at (571) 270-2066.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For

Application/Control Number: 10/709,672

Art Unit: 2117

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800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Guerrier Merant 10/10/08

/JACQUES H LOUIS-JACQUES/ Supervisory Patent Examiner, Art Unit 2100

Page 6